From the INTERNATIONAL BUREAU			
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 01 August 2001 (01.08.01)	David, G, ROSENBAUM, Esq. Rosenbaum & Associates, P.C. Suite # 3653 875 North Michigan Avenue Chicago, Illinois 60611 ETATS-UNIS D'AMERIQUE		
Applicant's or agent's file reference BSI - 052	IMPORTANT NOTIFICATION		
International application No. PCT/US00/15565	International filing date (day/month/year) 05 June 2000 (05.06.00)		
The following indications appeared on record concerning: the applicant the inventor Name and Address	the agent the common representative State of Nationality State of Residence		
ROSENBAUM, David, G. Rosenbaum & Associates, P.C. 514 Monroe Avenue P.O. Box 396 Glencoe, IL 60022 United States of America	Telephone No. 847-242-9986 Facsimile No. 847-835-1404 Teleprinter No.		
2. The International Bureau hereby notifies the applicant that the the person the name X the add			
Name and Address David, G, ROSENBAUM, Esq. Rosenbaum & Associates, P.C. Suite # 3653 875 North Michigan Avenue Chicago, Illinois 60611 United States of America	State of Nationality Telephone No. 312-397-0303 Facsimile No. Teleprinter No.		
3. Further observations, if necessary:			
4. A copy of this notification has been sent to: X the receiving Office the International Searching Authority X the International Preliminary Examining Authority	the designated Offices concerned X the elected Offices concerned other:		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	P. BOCCARD (Fax 338.87.40)		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)
03 April 2001 (03.04.01)

International application No.
PCT/US00/15565

International filing date (day/month/year)
05 June 2000 (05.06.00)

Applicant

SAMMONS, David, W. et al

1.	The designated Office is hereby notified of its election made:
· ·	X in the demand filed with the International Preliminary Examining Authority on:
	04 January 2001 (04.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

From the INTERNATIONAL BUREAU **PCT** Commissioner **US Department of Commerce NOTIFICATION OF ELECTION** United States Patent and Trademark Office, PCT (PCT Rule 61.2) 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 24 January 2002 (24.01.02) International application No. Applicant's or agent's file reference S 4582 WO PCT/EP01/06302 Priority date (day/month/year) International filing date (day/month/year) 02 June 2000 (02.06.00) 01 June 2001 (01.06.01) **Applicant** NEIFER, Wolfgang

The designated Office is hereby notified of its election made:
X in the demand filed with the International Preliminary Examining Authority on:
02 January 2002 (02.01.02)
in a notice effecting later election filed with the International Bureau on:
The election X was
was not
made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Odile ALIU

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

10/009085

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE 0 4 DEC 2001

APPLICANT:

Sammons, et al.

SERIAL NO.:

FILING DATE:

Herewith

TITLE:

SYSTEM AND METHOD OF PRENATAL DIAGNOSTIC SCREENING

U.S. Patent and Trademark Office BOX PCT P.O. Box 2327 Arlington, VA 22202

CERTIFICATE OF EXPRESS MAIL UNDER 37 CFR 1.10

I hereby certify that the attached US NATIONAL STAGE TRANSMITTAL DOCUMENTS; COPY INTERNATIONAL SEARCH REPORT; COPY INTERNATIONAL PRELIMINARY EXAMINATION REPORT; INVENTORS' DECLARATION (UNSIGNED); ASSOCIATED FEES are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Mailing Label No. EL 412 126 344 US on the date indicated below and is addressed to the U.S. Patent and Trademark Office, BOX PCT - FEES, P.O. Box 2327, Arlington, VA 22202.

Lori Dunham
(Person Signing Certificate)
(Signature)
4 December 2001
(Date of Signature)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BSI-052	FOR FURTHER see Notification of ACTION (Form PCT/ISA/22)	Transmittal of International Search Report 2) as well as, where applicable, item 5 below.		
International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)		(Earliest) Priority Date (day/month/year)		
PCT/US00/15565 05 JUNE 2000 04 JUNE 1999		04 JUNE 1999		
Applicant BIOSEPARATIONS, INC				
	n prepared by this International Searching Aug transmitted to the International Bureau.	uthority and is transmitted to the applicant		
This international search report consist	s of a total of 5 sheets.			
X It is also accompanied by a c	copy of each prior art-document cited in this	report.		
1. Basis of the report	· ·			
	ne international search was carried out on the ba unless otherwise indicated under this item.	sis of the international application in the		
	carried out on the basis of a translation of the	ne international application furnished to this		
b. With regard to any nucleotide was carried out on the basis of	and/or amino acid sequence disclosed in the ir f the sequence listing:	nternational application, the international search		
contained in the internation	al application in written form.			
filed together with the inter	filed together with the international application in computer readable form.			
furnished subsequently to this Authority in written form.				
furnished subsequently to the	furnished subsequently to this Authority in computer readable form.			
the statement that the subse	quently furnished written sequence listing does	s not go beyond the disclosure in the		
! i	filed has been furnished. ation recorded in computer readable form is ide	ntical to the written sequence listing has been		
furnished. 2. Certain claims were found	d unsearchable (See Box I).			
3. Unity of invention is lack				
4. With regard to the title,				
X the text is approved as sub	mitted by the applicant.			
		1		
the text has been established by this Authority to read as follows:				
5. With regard to the abstract,				
the text is approved as sub				
Box III. The applicant may search report, submit com		ty as it appears in f this international		
6. The figure of the drawings to be published with the abstract is Figure No. 1				
X as suggested by the applica		None of the figures.		
because the applicant faile	d to suggest a figure.	<u> </u>		
	characterizes the invention.			

International application No. PCT/US00/15565

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

NEW ABSTRACT

A method prenatal diagnostic screening employing a system which integrates cell enrichment, labeling and detection steps. The labeling step characterizes cells using a combination of histochemical staining, antibody labeling and fluorescence in situ hybridization (FISH), and a method of detecting labeled cells using a computer imaging scanning system which detects labeled cells from immunohistochemical labeling and positionally compares the immunohistochemical labeled coordinates with a subsequently detected FISH label. See Figure 1.

A. CLA	SSIFICATION OF SUBJECT MATTER			
l	:Please See Extra Sheet.			
` '	:Please See Extra Sheet.			
According	to International Patent Classification (IPC) or to both	national classification and IPC		
B. FIEI	.DS SEARCHED			
Minimum d	locumentation searched (classification system follower	d by classification symbols)		
U.S. :				
Documenta	tion searched other than minimum documentation to the	extent that such documents are included	in the fields searched	
Electronic o	data base consulted during the international search (na	ime of data base and, where practicable	e, search terms used)	
SCISEAR	RCH, EMBASE, MEDLINE, BIOSIS			
			i	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
37	110 E ((2 012 A (0.13 503)	-1) 00 6 1 1007	1.7	
Y	US 5,662,813 A (SAMMONS et	al.) 02 September 1997.	1-7	
	(02.09.1997). see entire document.			
37	110 5 656 040 4 (043 0 50) 0 1) 14	0.4411007.414.10.1007		
Y	US 5,676,849 A (SAMMONS et al.) 14	October 1997 (14.10.1997).	1-7	
	see entire document.			
	770 7 040 070 4 (043 070)			
Y,P	US 5,948,278 A (SAMMONS et	al.) 07 September 1999	1-7	
	(07.09.1997) see entire document.			
Y,P	US 6,013,188 A (TERSTAPPEN	et al.) 11 January 2000	1-7	
	(11.01.2000) see entire document.			
	***	1000		
Y,P	US 6,008,010 A (GREENBURGER	et al.) 28 December 1999	1, 8-10	
	(28.12.1999) see col. 7-12, 17-28.			
	<u> </u>			
X Furt	her documents are listed in the continuation of Box C	See patent family annex.		
• Sp	pecial categories of cited documents:	*T* later document published after the integrated date and not in conflict with the app		
	ocument defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying the		
1	riter document published on or after the international filing date	"X" document of particular relevance; the		
·L· do	ocument which may throw doubts on priority claim(s) or which is	considered novel or cannot be conside when the document is taken alone	see to myorke an inventive steb	
ci	ted to establish the publication date of another citation or other pecial reason (as specified)	"Y" document of particular relevance; th		
•0• do	ocument referring to an oral disclosure, use, exhibition or other	considered to involve an inventive combined with one or more other such	h documents, such combination	
means being obvious to a person skilled in the art P document published prior to the international filing date but later than document member of the same patent family				
th	the priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search report				
28 AUGUST 2000 29 SEP 2000				
Name and mailing address of the ISA/US Authorized office Illu plur				
Commission	oner of Patents and Trademarks	1/090	/)	
Box PCT Washingto	Washington, D.C. 20231			
Facsimile No. (703) 305-3230 Telephone No. (703) 308-0196			-	

		101/0300/1330	•	
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relev	Relevant to claim No.		
Y :	US 5,646,001 A (TERSTAPPEN et al.) 08 July 1997 (08.07.1997) 1-7 see col. 16.			
A,P	US 5,861,253 A (ASGARI et al.) 19 January 1999 (19.01.1999) see entire document.			
Y .	US 5,721,098 A (PINKEL et al.) 24 February 1998 (24 see col. 23, 35-36.	1.02.1998)	1, 7-10	
·				
		· · · · · ·		
	·			

International application No. PCT/US00/15565

A. CLASSIFICATION OF SUBJECT MATTER: IPC (7):

G01N 27/26, 33/49, 33/53, 27/447; B01D 21/26, 35/06, 37/00; C12Q 1/68; C12N 1/00, 5/06; 5/08

A. CLASSIFICATION OF SUBJECT MATTER: US CL :

210/198.2, 209, 456, 660, 695, 745, 749, 767, 782, 787, 806; 204/450, 518, 543, 600, 627, 630; 435/2, 4, 5, 6, 7.2, 7.21, 7.32, 7.92, 240.2, 243, 249; 436/172, 174, 175, 177, 178, 526; 424/533, 720; 530/412, 413, 417, 427

Form PCT/ISA/210 (extra sheet) (July 1998)*

PCT

REC'D 28 JUN 2001
WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BSI - 052	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/mor	(day/month/year) Priority date (day/month/year)		
PCT/US00/15565 05 June 2000 (05.06.2000) 04 June 1999 (04.06.1999)		M Tune 1000 (04 06 1000)		
	PCT/US00/15565 05 June 2000 (05.06.2000) 04 June 1999 (04.06.1999) International Patent Classification (IPC) or national classification and IPC			
IPC(7): G01N 27/26, 33/49, 33/53, 27/447; B01D 21/26, 35/06, 37/00; C12Q 1/68,; C12N 1/00, 5/06, 5/08 and US C1.: 210/198.2, 209, 456, 660, 605, 745, 749, 767, 782, 787, 806; 204/450, 518, 543, 600, 627, 630; 435/2, 4, 5, 6, 7.2, 7.21, 7.32, 7.92, 240.2, 243, 249; 436/172, 174, 175, 177, 178, 526; 424/533, 720; 530/412, 413, 417, 427 Applicant				
BIOSEPARATIONS, INC				
Examining Authority and i	hary examination report has been is transmitted to the applicant at a total of 3 sheets, including	ccording to Artic	cle 36.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of $\frac{D}{C}$ sheets.				
3. This report contains indica	ations relating to the following	items:		
J. This report contains indica	mons relating to the rollowing	atoms.		
I Basis of the rep	ort	No. 1 f		
II Priority				
	ent of report with regard to nov	elty, inventive s	tep and industrial applicability	
IV Lack of unity of	f invention			
VI Certain documents cited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report				
04 January 2001 (04.01.2001)		ay 2001 (29.05.20	•	
Name and mailing address of the IPEA/US		Authorized officer		
Commissioner of Patents and Trademarks Box PCT		Gailene R. Gabel Allens for		
Washington, D.C. 20231 Facsimile No. (703)305-3230 Telephone No. (703) 308-0196			08-0196	
Form PCT/IDEA/400 (cover sheet) (July 1			17	

INTERNATIONAL PRELIMITY EXAMINATION REPORT

•	International application No.
	PCT/US00.
	· · · · · · · · · · · · · · · · · · ·

I.	Basi	is of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
	_	pages 1-32 as originally filed
		pages NONE, filed with the demand
		pages NONE , filed with the letter of
	\bowtie	the claims:
		pages 33 and 34 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand , filed with the letter of
	M	the drawings:
: I		pages 1-10 , as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
	Ш	the sequence listing part of the description:
		pages NONE , as originally filed pages NONE , filed with the demand
		pages NONE , filed with the letter of
2	With	h regard to the language, all the elements marked above were available or furnished to this Authority in the
∸.	langi	uage in which the international application was filed, unless otherwise indicated under this item.
		be elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	H	
	H	the language of publication of the international application (under Rule 48.3(b)).
	لــا	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
J.	inten	national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
	H	filed together with the international application in computer readable form.
	一	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
	H	· · · · · · · · · · · · · · · · · · ·
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	ш	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4		
4.	ш	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to g
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* R	eplac	rement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
thus **	repor	of as "originally filed" and are not annexed to this report since they do not contain a nendments (Rules 70.16 and 70.17). Explacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
•	טוא וכ	patternera sietet comuniang such untertaineras mass de rejerrea to unaer tiem 1 ana annexea to tras report.



Form PCT/IPEA/409 (Box V) (July 1998)

J

1. STATEMENT			
Novelty (N)	Claims	1-10	YES
	Claims	NONE	NO
Inventive Step (IS)	Claima	1.10	
invenive step (13)	Claims Claims	NONE	YES NO
			NO
Industrial Applicability (IA)	Claims	1-10	YES
	Claims	NONE	NO
Pinkel et al. (US 5,721,098) provide a teaching of the Claims 1-10 have industrial applicability as defined by the NEW CITATIONS	by PCT Article		ne and Neonatal Pathology.
	·		
	·		
	·		

		<u></u>	
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : Please See Extra Sheet. US CL : Please See Extra Sheet. According to International Patent Classification (IPC) or to both national classification and IPC			
	DS SEARCHED		
Minimum d	ocumentation searched (classification system follow	ed by classification symbols)	·····
U.S. :	•	,,	
Documenta	tion searched other than minimum documentation to th	e extent that such documents are included	in the fields searched
	data base consulted during the international search (in ECH, EMBASE, MEDLINE, BIOSIS	name of data base and, where practicabl	e, search terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	US 5,662,813 A (SAMMONS et (02.09.1997). see entire document.	al.) 02 September 1997.	1-7
Y	US 5,676,849 A (SAMMONS et al.) 1 see entire document.	4 October 1997 (14.10.1997).	1-7
Y,P	US 5,948,278 A (SAMMONS et (07.09.1997) see entire document.	al.) 07 September 1999	1-7
Y,P	US 6,013,188 A (TERSTAPPEN (11.01.2000) see entire document.	et al.) 11 January 2000	1-7
Y,P	US 6,008,010 A (GREENBURGER (28.12.1999) see col. 7-12, 17-28.	et al.) 28 December 1999	1, 8-10
X Furth	ner documents are listed in the continuation of Box (C. See patent family annex.	
"A" doc	ecual categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"T" later document published after the inte date and not in conflict with the appli the principle or theory underlying the	ication but cited to understand
	lier document published on or after the international filing date	"X" document of particular relevance, the	claimed invention cannot be
cite	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other rejal reason (as appeilised)	considered novel or cannot be consider when the document is taken alone "Y" document of particular relevance: the	·
special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
P document published prior to the international filing date but later than *&* document member of the same patent family the priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search report			
28 AUGUST 2000 49 SEP 2060			
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Authorized office GAILERE P. GAREI			
Washington	n, D.C. 20231	GAILENE R. GABEL	$V \perp$
Facsimile N	lo. (703) 305-3230	Telephone No. (703) 308-0196	1

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No
Y	US 5,646,001 A (TERSTAPPEN et al.) 08 July 1997 (08.07.1997) see col. 16.		1-7
A,P	US 5,861,253 A (ASGARI et al.) 19 January 1999 (19.01.1999) see entire document.		1-10
Y	US 5,721,098 A (PINKEL et al.) 24 February 1998 (24 see col. 23, 35-36.	.02.1998)	1, 7-10

	PC1/US00/15365				
A. CLASSIFICATION OF SUBJECT MATTER: IPC (7):					
G01N 27/26, 33/49, 33/53, 27/447; B01D 21/26, 35/06, 37/00; C12Q 1/68; C12N 1/00, 5/06; 5/08					
A. CLASSIFICATION OF SUBJECT MATTER: US CL:					
210/198.2, 209, 456, 660, 695, 745, 749, 767, 782, 787, 806; 204/450, 518, 543, 600, 627, 630; 435/2, 4, 5, 6, 7.2, 7.21, 7.32, 7.92, 240.2, 243, 249; 436/172, 174, 175, 177, 178, 526; 424/533, 720; 530/412, 413, 417, 427					